

### Common Pitfalls in Site/Property Management and Vapor Mitigation

December 4, 2024

Department of Environmental Quality Brownfields Redevelopment Section



## Overview

- ConstructionMitigation System Installs
- Post-Construction
   Pre-Occupancy Sampling
   O&M VIMS Systems

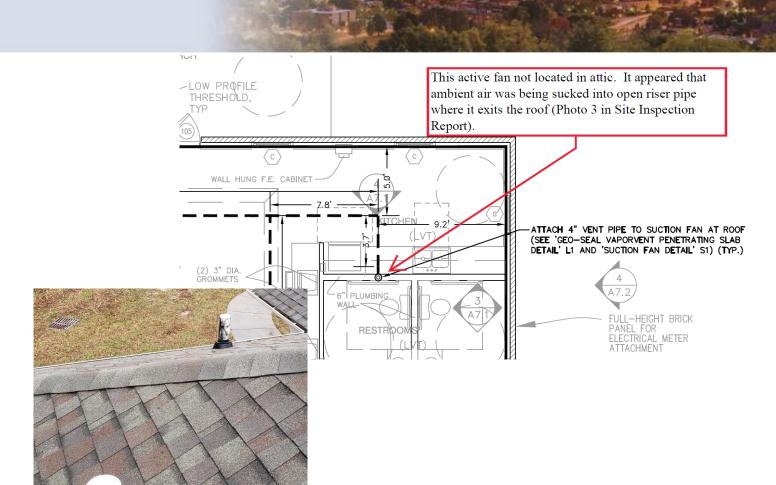




#### Construction

VIMS - What have we seen?

- Not installing fans
  - Passive or Active fans can be forgotten
- Fans installed backwards
  - Should be caught during inspections
  - Have meeting with all subcontractors
- Fan installed in attic instead of roof





## Construction

VIMS - What have we seen?

- Incomplete vapor collection systems
- Improper building materials in VIMS
  - Roofing tar for seal sealant
  - Stego barrier/tape
- Install variances not reported, found during review or inspections



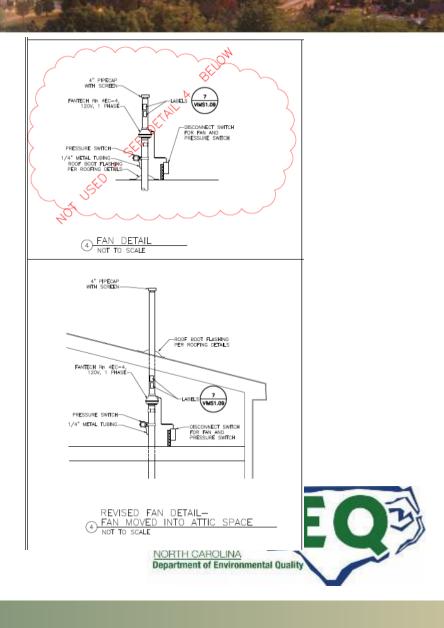


Roofing Mastic

VIMS – Installation Report

- Include pictures of labels, vents, other visible components
- Specifically address stairwells, elevator shafts, etc.
- Call out variances & include updated as built
- Tell us what you installed As-Built should not include "or equivalent"
- Include SDS for building materials
- Report needed prior to compliance review/occupancy

# All of this extends review and delays <u>occupancy!</u>



#### Post-Construction

Pre-Occupancy Sampling Challenges



- Reaching 0" Hg will likely result in a resample
- Document all canister pressure readings
- Ensure labs report cannister pressures
- Submittal Submit samples to the lab ASAP
  - For GW & Soil, if there is a delay, maintain temperature for chilled samples and keep records.
  - Don't hold samples for a week.

	Flow Controller and	Lab Use Only  Canister Certification Batch: 10/12/23						Client Sampling Information							
	nister must be used together as							Sampling Start Information			Sampling Stop Information				
	designated** Client Sample ID	Flow Controller ID:	Cal Flow (cc/min)	Canister ID:	Canister Pressure	Lab Receiving Canister Pressure	Start Date	Start Time (24hr clock)	Initial Canister Pressure (In Hg)	Stop Date	Stop Time (24hr clock)	Final Canister Pressure (in Hg)	Type Code	Comments (Any additional information about the site)	
1)	1-B	6550	3.4	42648	1.4	-28		10/31	1220	28	uli	1045	8	AA	12-1 either mad canister
2)	E-1	14313	3.4	36101	14	-30		10 31	1222	36	11/1	1040	failure)	AA	failuse.
3)	Dup-1	13138	3.4	42651	1.4	-29		10/31	1210	29	n/ 1	1035	6	AA	
4)	1-A	16203	3.5	37255	1.4	-29		10(3)	1210	29	MI	10 30	5	AA	





- Open pour backs adjacent to occupied spaces
  - Increases O&M checks by PD team
  - Can cause IA sample interference
- TCE in IA from Furniture
- Long sub-slab runs moisture entrapment
  - Issues with pressure monitoring or sampling
- Final Grade Sampling timing
  - Required *prior* to occupancy, plan accordingly.
  - Curb/Gutter and Mass Grading Complete



